BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. 5.00 Lakhs

Name of work:-Maintenance of borewell and providing pipeline in ward no 04 of Yelahanka Satellite Town Sub Division

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Lifting of Submersible pump set **(P.40/I.13) PRED SR (2013-14) P-56 I.No 3.21**	No.	10				10	850.00	8500.00
2	Transportation of pumping machineries PRED SR For 2012-13 **(P.41/I.14)PRED SR (2013-14) P.No 56 Item No 10-3-19**	No.	10				10	900.00	9000.00
3	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **PRED SR (2013-14) P No. 54/ I. No. A) (Above 5 HP upto 10HP add Rs.120/- for every ½ HP)**								
	B) 10 HP Motor	No.	5				5	3700.00	18500.00
	upto 5 HP 2500.00								
	for 10 HP (120 x 10) 1200.00								
	Total 3700								
	111.00								
	3811.00								
	B) Replacement of Motor Parts:								
4	Stator (with one year Guarantee) **P No. 55/ I No. C(1) PRED SR (2012-13) 10.3.3**	No.	8				8	5050.00	40400.00
5	Rotor (with one year Guarantee) **P No. 55/ I No. C(2) PRED SR (2013-14) 10.3.6**	No.	8				8	4700.00	37600.00

6	Upper Flange **P. No. 40 / I No. 10.3.7 PRED SR (2013-14)**	No.	8				8	350.00	**2800.00**
7	Lower Housing **P. No. 55 / I No.10.3.10PRED SR (2013-14)**	No.	8				8	650.00	**5200.00**
8	Lower flange **P. No. 40 / I No.5 PRED SR (2008-09)**	No.	8				8	350.00	**2800.00**
9	a) Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	8				8	475.00	**3800.00**
10	b) Thrust bearing block assembly complete with Segment bearing pad.**P. No. 40 / I No10.3.13PRED SR (2012-13**	No.	8				8	1150.00	**9200.00**
11	c)Top Carbon /Ferrodo padding **P. No. 56 / I No. PRED SR (2012-13)**	No.	8				8	150.00	**1200.00**
12	Bearing (GunMetal) Centrifugal cast Aluminium Bronze, bearing bush. **P. No. 56/ I No10.3.16 PRED SR (2013-14)**	No.	8				8	400.00	**3200.00**
13	Motor Base with pin **P. No. 56 / I No.10.3.18 PRED SR (2013-14)**	No.	8				8	470.00	**3760.00**
14	Re-erection charges of pumping machineries including overhauling and painting **P. No. 56 / I No.50 PRED SR (2013-14)**	No.	8				8	950.00	**7600.00**
15	Labour charges (overhauling only) **P. No. 55/ I No.10.3.22 PRED SR (2012-13)**	No.	8				8	550.00	**4400.00**
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.		8						
16	Pump Bowls **P. No. 54 / I No.10.2.1 PRED SR (2013-14**	No.	8				8	700.00	**5600.00**

17	Intermediate piece (I.P) with IP leaded bronze bush **P. No. 54 / I No10.2.2 PRED SR (2012-13)**	No.	8				8	450.00	**3600.00**
18	Oil Seal **P. No. 39 / I No.B3 PRED SR (2008-09)**	No.	8				8	125.00	**1000.00**
19	Oil Seal Steel Bush **P. No. 54/ I No.10.24 PRED SR (2012-13)**	No.	8				8	150.00	**1200.00**
20	Guide vane **P. No. 54 / I No.10.2.5 PRED SR (2012-13)**	No.	8				8	175.00	**1400.00**
21	Impeller (Shell moulded with aluminium and Bronze) **P. No. 54/ I No.10.2.70 PRED SR (2012-13)**	No.	10				10	425.00	**4250.00**
22	a) Discharge outlet (D.O) Bearing D.O Steel Bush **P. No.54 / I No.10.2.70 RDED SR (2012-13)**	No.	10				10	445.00	**4450.00**
23	b) D.O Bearing **P. No. 54 / I No.10.2.8 PRED SR (2012-13)**	No.	8				8	285.00	**2280.00**
24	Steel Bush (D.O.Steel bush) **P. No. 54 / I No.A710.2.9 PRED SR (2012-13)**	No.	8				8	150.00	**1200.00**
25	Allen Screw **P. No. 55 / I No.8 PRED SR (2012-13)**	No.	8				8	25.00	**200.00**
26	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 55/ I No.10.2.11 PRED SR (2013-14))**	No.	8				8	950.00	**7600.00**
27	Pump key (Stainless steel) **P. No. 55 / I No.10.2.12 PRED SR (2012-13))**	No.	8				8	125.00	**1000.00**
28	Pump Coupling (Stainless steel) **P. No. 55/ I No.10.2.13PRED SR (2012-13)**	No.	8				8	250.00	**2000.00**

29	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No.10.2.14PRED SR (2012-13)**	No.	8				**8**	1350.00	**10800.00**
30	Cable Guard **P. No.55 / I No.10.2.15 PRED SR (2012-13)**	No.	8				**8**	150.00	**1200.00**
31	Strainer **P. No. 55 / I No.10.2.16 PRED SR (2012-13)**	No.	8				**8**	150.00	**1200.00**
32	Brass Filter **P. No. 55 / I No.10.2.17) PRED SR (2012 13)**	No.	8				**8**	250.00	**2000.00**
	E) General Items								
33	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, **No. 5/ Item No. 2.4/ PWD SR 2015-16**	Cum							
			1	800.00	0.60	0.80	384.00		
							384.00	283.02	**108680.00**
	Basic Rate	267.00							
	Area Weightage @ 6%	16.02							
	Total	**283.02**							

34	Providing and instalation at site of works P.V.C. Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.3 item No.4.2 **PRE SR 2015-16**	Rmtr							
	75mm Dia 6 KSC		1	800.00			800.00	161.71	**129368.00**
35	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mm, and lift upto 1.5m, including cost of all labour complete as per specifications, **No. 6/ Item No. 2.11/ PWD SR 2015-16**	Cum							
			Qty. Vide Item No. 33				**384.00**	76.32	**29307.00**
	Basic Rate	72.00							
	Area Weightage @ 6%	4.32							
	Total	**76.32**							
36	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 (P.89/I.13.37 **PWD SR - 2015-16)**	Each							
			8				8	2120.00	**16960.00**
	Basic Rate	2000.00							
	Add Area Weightage @ 6%	120.00							
	Total	**2120.00**							

37	Labour charges for attending to repairs of the P.V.C pipes by earth work excavation, cutting the old pipe, installation and jointing of new pipes to the existing old pipe to the depth, line and level, perfect linking at joints including encasing the pipes alround to a depth of not less than 15 cm with earth available and refilling the excavated trenches giving satisfactory hydraulic test et., complete (Excluding the cost of materials) **(P.6/I.9 PREC SR - 2015-16)**	Each	30				30	150.38	4511.00
38	Miscellaneous and Unforeseen Charges								2234.00
								Total	500000.00

(Rupees five Lakhs Only)

Administrative Sanction for Rs. 5.00 Lakhs
Five Lakhs only
is accorded under head P-1771
2015-16
Registered as CE No. ..... Subject
to conditions contained in enclosed memo
No. CE/MNL/AO/72/15-16 Dt. 2-1-16
Executive Engineer

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2015-165PWD Elecrical 2014-15, PRED 2014 -15& RDED SR 2014-15 &
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Yelahanka Sattellite Sub Division
Bangalore.

TECHNICALLY SANCTIONED FOR Rs. 5.00 Lakhs
Rupees Five Lakhs only
Under P-1771 - 2015-16
Registered as CE ( ) No. .....
Subject to conditions contained in
enclosed memo EE ( ) No. ...../91
Dt. .....
CE/MNL/TS/95/15-16
Dated 2-1-16 Estimate/AA Sanctioned
No. .....
Rs. 5.00 Lakhs
Executive Engineer